Abstract

APPARATUS AND METHOD FOR CURING MATERIALS WITH RADIATION

A hand held dental instrument for curing light-curable compounds comprises a housing and an array of solid state, light emitting junctions or dies for generating light having wavelengths within a narrow band of wavelengths (e.g. 400-500 nm). Preferably, a peak wavelength of 470 nm is generated. The device further comprises an optical fiber light pipe for capturing the light and transmitting a beam of the light to a work surface containing a light-curable compound. An optical lens or lenses may be used for focusing the light into the light pipe.

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